

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

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<b>MA0012</b>	Overall LMA Rating	Total LMA Miles				
<b>Sutter Maintenance Yard Maintenance Area 0012</b>	<b>A</b>	<b>11.31</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments					1.31	
Animal Control	0.02		0.02	0.18%		
Slope Stability	0.01		0.01	0.09%		
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.09%		
<i>LMA Totals:</i>	0.04	0.00	0.04	0.35%	1.31	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2011 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0012**

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	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway			Bank	Unit Miles
Unit No. 01 Colusa Drain			Left	11.31
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/29/2011 - 3/29/2011		10/27/2011 - 10/27/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Yard		Bryan Reniff Sutter Yard	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain							Left	11.31	10/27/2011 10/27/2011	Bob Duffey
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	2.65	3.76	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.067343 ° -122.009611 °	39.081684 ° -122.016243 °	1
2	3.77	11.28	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Regrade the crown roadway for proper drainage.	39.081932 ° -122.016212 °	39.180222 ° -122.012102 °	2
3	4.16	4.31	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.087326 ° -122.015182 °	39.089409 ° -122.015253 °	3
4	4.64	4.64	Earthen Levee	Crown Surface / Depressions / Rutting	CR	A	Add appropriate gravel or road base. Grade and compact.	39.094148 ° -122.015528 °	39.094148 ° -122.015528 °	208 Y
5	4.83	4.88	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.096839 ° -122.015568 °	39.097455 ° -122.015581 °	4
6	5.30	5.30	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.103490 ° -122.016340 °	39.103490 ° -122.016340 °	206 Y
7	5.82	5.82	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.110742 ° -122.017342 °	39.110742 ° -122.017342 °	207 Y
8	7.66	7.68	Earthen Levee	Slope Stability	LS	C	Repair slope instability.	39.135813 ° -122.022782 °	39.136107 ° -122.022773 °	5
9	7.66	7.68	Earthen Levee	Slope Stability	LS	A	Repair slope instability. Inspector Comments: Repaired damaged slope.	39.135813 ° -122.022782 °	39.135813 ° -122.022782 °	209 Y
10	9.19	9.20	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011: Erosion occurring upstream and downstream of an irrigation diversion structure. [2011 Site ID: SYC_9-3_L]	39.158226 ° -122.021950 °	39.157957 ° -122.021950 °	7 Y
11	10.72	10.72	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.173970 ° -122.014335 °	39.173970 ° -122.014335 °	6 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor  
N : Not Inspected, see Inspector Comment  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	10/27/2011 10/27/2011	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	4.64
End Levee Mile	4.64
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Sutter Yard placed new gravel on the crown roadway.	
rduffey_f_20111122_498.jpg	



Levee Mile Report Line	6
Start Levee Mile	5.30
End Levee Mile	5.30
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of the rodent holes along the L/S slope.	
rduffey_f_20111128_510.jpg	



Levee Mile Report Line	7
Start Levee Mile	5.82
End Levee Mile	5.82
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of rodent holes along the L/S slope.	
rduffey_f_20111128_511.jpg	

**\* Location**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	10/27/2011 10/27/2011	Bob Duffey

Levee Mile Report Line	9
Start Levee Mile	7.66
End Levee Mile	7.68
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the repaired site by Sutter Yard.

rduffey\_f\_20111122\_499.jpg



Levee Mile Report Line	10
Start Levee Mile	9.19
End Levee Mile	9.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SYC\_9-3\_L\_1.jpg



Levee Mile Report Line	10
Start Levee Mile	9.19
End Levee Mile	9.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SYC\_9-3\_L\_2.jpg



**\* Location**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	10/27/2011 10/27/2011	Bob Duffey

Levee Mile Report Line	11
Start Levee Mile	10.72
End Levee Mile	10.72
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of vehicle erosion along the slope.

rduffey\_f\_20110927\_189.jpg



**\* Location**

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CR : Crown

**\*\* Rating**

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M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor